Advances in Early Math Education: Critical Issues in Policy and Practice

Conference | May 3, 2024
Paul Berg Hall, Li Ka Shing Learning and Knowledge Center, 291 Campus Drive, Stanford, CA 94305

MORNING

8:30–9:00 Registration and Breakfast

9:00–9:20 Welcome
Philip Fisher
Director, Stanford Center on Early Childhood
Liz Simons
Chair of the Board, Heising-Simons Foundation
Deborah Stipek
Director, DREME Network

9:30–10:30 Supporting Families and Caregivers
Chair
Eric Dearing, Professor and Executive Director, Mary E. Walsh Center for Thriving Children, Boston College
Panelists
Kendra Davey, Library Services Manager, Community Engagement Office, Pima County Public Library, Tucson, AZ
Gigliana Melzi, Professor of Applied Psychology, Steinhardt School of Culture, Education and Human Development, New York University
Savitha Moorthy, Executive Director, Tandem Partners in Early Learning
Omo Moses, CEO, MathTalk

10:40–11:40 Broadening and Deepening Math Learning in Classrooms
Chair
Susan Levine, Rebecca Anne Boylan Professor of Education and Society, Department of Psychology, University of Chicago
Panelists
Douglas H. Clements, Distinguished University Professor, University of Denver; Executive Director, Marsico Institute for Early Learning
Kelley Durkin, Research Assistant Professor, Peabody College, Vanderbilt University
Herbert Ginsburg, Jacob H. Schiff Foundation Professor Emeritus of Psychology and Education, Teachers College, Columbia University
Julie Peterson, Early Learning Instructional Specialist, Beaver Lake Early Learning Center, Maplewood, Minnesota
Linda Platas, Chair and Associate Professor, Child and Adolescent Development Department, San Francisco State University

11:45–12:30 Exhibits
[See next page for list of exhibits]

AFTERNOON

12:30–1:30 Lunch

1:30–2:30 Supporting the Professionals Who Prepare and Support Teachers
Chair
Megan Franke, Professor of Education, UCLA
Panelists
Dale Farfan, Emerita Professor, Peabody College, Vanderbilt University
Colleen Oppenzo, Adjunct lecturer, City College of New York, Division of International Studies at the Center for Worker Education
Angela Turrou, Senior Researcher, UCLA Department of Education
Diana Zaragoza, Director of the UC Davis Mathematics Project

2:40–3:40 Supporting Districts to Improve the Quality and Coherence of Math Instruction P-3
Chair
Cynthia Coburn, Charles Deering McCormick Professor of Teaching Excellence, Northwestern University
Panelists
Steve Kellner, Director, Program Sustainability and Growth, California Education Partners
Cresta McIntosh, Associate Superintendent, Educational Services, Monterey Peninsula Unified School District
Abigail Stein, Postdoctoral Researcher, Carnegie Mellon University
Kristin Whyte, Visiting Assistant Professor, University of Wisconsin-Madison

3:50–4:45 Building Early Math into State Policies
Chair
Deborah Stipek, Emeritus professor, Stanford Graduate School of Education; Director, DREME Network
Panelists
Ted Lempert, President, Children Now
Stephen Prophet, Early Education Division Director, California Department of Education
Mary Sandy, Executive Director, California Commission on Teacher Credentialing
Matt Weyer, Policy Director, Education Commission of the States

4:45–5:00 Closing
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Advances in Early Math Education Conference Exhibits

DREME Math Observer: A Practical Tool for Coaching and Supporting High-Quality Math Instruction in the Early Grades
Find it on the [App Store] | [Google Play]
Luke Rainey, Kelley Durkin, Dale Farran, and Ilknur Sekmen

Moving Toward Greater PK-3 Alignment and Continuity: How Districts Change
Susan Bush-Mecenas, Bethany Elston, Abigail Stein, and Cynthia Coburn

Exploring and Supporting Diversity in Problem-Solving Strategies of Early Learners
Douglas Clements, Crystal Day-Hess, Yixiao Dong, and Julie Sarama

Opening the Black Box: What Classroom Observations Reveal About Math Practice Across the Early Grades
Dale Farran, Luke Rainey, Kelley Durkin, and Stone Dawson

Math Moments Matter: Incorporating Math Throughout the Day
Amy Claessens, Susan Levine, Ariadne Nelson, and Allison Monday

Making More of Math Materials: Creative and Play-Based Center and Small Group Math Activities to Use All Year
Kelley Durkin, Dale Farran, Luke Rainey, and Rachel Kasul

Double Dipping into Learning: Playful Activities to Support Math and Executive Function Skills
Crystal Day-Hess, Douglas Clements, Christina Mulcahy, and Julie Sarama

What’s EF Got to Do with Math? Plenty!
Michèle Mazzocco, Jasmine Ernst, Crystal Day-Hess, and Yvonne Borgerding

Aprendiendo Matemáticas Juntos: Learning and Building from Families’ Strength
Paola Montúfar, Nydia Prishker, Gigliana Melzi, and Viviana Kawas

Early Math is More Than Number: The Importance of Spatial Thinking
Susan Levine, Amy Claessens, Ariadne Nelson, and Jalyn Davis

Storybook Reading and Early Math Learning
Herbert Ginsburg, Colleen Oppenzato, and Gigliana Melzi

Learning About Individual Children’s Thinking
Colleen Oppenzato, Herbert Ginsburg, and Gigliana Melzi

Supporting Family Support Professionals: Early Math Professional Development Modules
Alisha Wackerle-Hollman and Michèle Mazzocco

Scan this QR code to learn more about the exhibits: